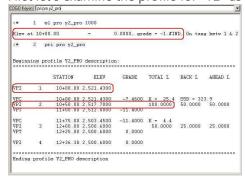
12 17 Criteria Issues with First Proposed X-Section

Question:

I stored a profile for -Y2- using VPI generator. The first VPI is at 10+00.00. When I try to run criteria it tells me it can't draw a x-section at 10+00.00 because the profile isn't long enough. When I use cogo to check the elevation at 10+00 I get 0.00. The elevation I used at 10+00.00 is 2521.43. D&C Manager draws the dsn alignment and proposed profile with station 10+00.00. [Why wouldn't Criteria process station 10+00.00?]

Answer:

First let's examine the profile for -Y2- as it is stored in the GPK file.



A direct elevation and grade can not be obtained, but VPI #1 at station 10+00 of the profile Y2_Pro elevation is 2,521.43' and a back grade of -7.4600%. Note that the vertical curve length is long enough that the begin grade station is also the begin point of vertical curve (PVC).

Next run a test to see how Criteria will process this profile.

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Station - 10-00.00, Region - 1

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Criteria message indicates a problem with the profile. The problem is Criteria can not obtain the profile elevation at the same station and point where the vertical curve begins (PVC). A bug, yes. Justifiable, maybe.

After restoring the profile Y2_Pro without any vertical curves, was able to process Criteria at station 10+00 successfully.

